

## C L A I M S

What is claimed and desired to secure by Letters Patent is:

1. A process for analyzing telecommunication network traffic comprising the steps of:
  - (a) accessing a call processing platform;
  - (b) copying a call detail record for each call processed by said call processing platform to a call detail database;
  - (c) periodically sorting the call detail records by dialed number;
  - (d) extracting a selected set of call parameters from each call detail record;
  - (e) aggregating said selected set of call parameters for each dialed number for calls which occurred within a selected interval;
  - (f) storing the aggregated sets of call parameters within call parameter tables; and
  - (g) analyzing said call parameter tables by dialed number to detect variations over time of said call parameters.

2. A process as set forth in Claim 1 wherein said extracting step includes the step of:
- (a) extracting a duration of each call to each dialed number.
3. A process as set forth in Claim 1 wherein said extracting step includes the step of:
- (a) extracting an hour of day during which each call to a dialed number occurred.
4. A process as set forth in Claim 1 wherein said extracting step includes the step of:
- (a) extracting a date on which each call to a dialed number occurred.
5. A process as set forth in Claim 1 wherein said aggregating step includes the step of:
- (a) summing the total duration of all calls made to each dialed number during each hour of each day.

6. A process as set forth in Claim 1 wherein said aggregating step includes the step of:
- (a) summing the total number of calls made to each dialed number during each hour of each day.
7. A process as set forth in Claim 1 wherein said analyzing step includes the step of:
- (a) graphically plotting variations in a selected call parameter of a selected dialed number over time to detect said variations in said call parameter.
8. A process as set forth in Claim 1 wherein said analyzing step includes the step of:
- (a) detecting a maximum aggregated duration of calls to a dialed number within an hour for a selected day.

9. A process as set forth in Claim 1 and including the steps of:
- (a) accessing a plurality of call processing platforms;
  - (b) copying a call detail record of each call processed by each platform to said call detail database;
  - (c) sorting said call detail records by call processing platform;
  - (d) aggregating said call parameters by dialed number and by call processing platform; and
  - (e) analyzing said call parameters by dialed number and by call processing platform.

10. A process for analyzing telecommunication network traffic comprising the steps of:
  - (a) accessing a plurality of call processing platforms;
  - (b) copying a call detail record for each call processed by each call processing platform to a call detail database;
  - (c) periodically sorting the call detail records by dialed number;
  - (d) extracting a selected set of call parameters from each call detail record;
  - (e) aggregating said selected set of call parameters for each dialed number for calls which occurred within each hour of each day;
  - (f) storing the aggregated sets of call parameters within call parameter tables; and
  - (g) analyzing said call parameter tables by dialed number to detect variations over time of said call parameters.

11. A process as set forth in Claim 10 wherein said extracting step includes the step of:
  - (a) extracting a duration of each call to each dialed number.
12. A process as set forth in Claim 10 wherein said extracting step includes the step of:
  - (a) extracting an hour of day during which each call to a dialed number occurred.
13. A process as set forth in Claim 10 wherein said extracting step includes the step of:
  - (a) extracting a date on which each call to a dialed number occurred.
14. A process as set forth in Claim 10 wherein said aggregating step includes the step of:
  - (a) summing the total duration of all calls made to each dialed number during each hour of each day.

15. A process as set forth in Claim 10 wherein said aggregating step includes the step of:
  - (a) summing the total number of calls made to each dialed number during each hour of each day.
16. A process as set forth in Claim 10 wherein said analyzing step includes the step of:
  - (a) graphically plotting variations in a selected call parameter of a selected dialed number over time to detect said variations in said call parameter.
17. A process as set forth in Claim 10 wherein said analyzing step includes the step of:
  - (a) detecting a maximum aggregated duration of calls to a dialed number within an hour for a selected day.

18. A process as set forth in Claim 10 and including the steps of:

- (a) sorting said call detail records by call processing platform;
- (b) aggregating said call parameters by dialed number and by call processing platform; and
- (c) analyzing said call parameters by dialed number and by call processing platform.

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19. A process for analyzing telecommunication network traffic comprising the steps of:
- (a) accessing a plurality of call processing platforms;
  - (b) copying a call detail record for each call processed by each call processing platform to a call detail database;
  - (c) periodically sorting the call detail records by dialed number;
  - (d) extracting a selected set of call parameters from each call detail record including a duration of each call to each dialed number, an hour of day during which each call to a dialed number occurred, and a date on which each call to a dialed number occurred;
  - (e) aggregating said selected set of call parameters for each dialed number for calls which occurred within each hour of each day including:
    - (1) summing the total duration of all calls made to each dialed number during each hour of each day; and
    - (2) summing the total number of calls made to each dialed number during each hour of each day;

- (f) storing the aggregated sets of call parameters within call parameter tables; and
- (g) analyzing said call parameter tables by dialed number to detect variations over time of said call parameters including:
  - (1) graphically plotting variations in a selected call parameter of a selected dialed number over time to detect said variations in said call parameter; and
  - (2) detecting a maximum aggregated duration of calls to a dialed number within an hour for a selected day.

20. A process as set forth in Claim 19 and including the steps of:

- (a) sorting said call detail records by call processing platform;
- (b) aggregating said call parameters by dialed number and by call processing platform; and
- (c) analyzing said call parameters by dialed number and by call processing platform.